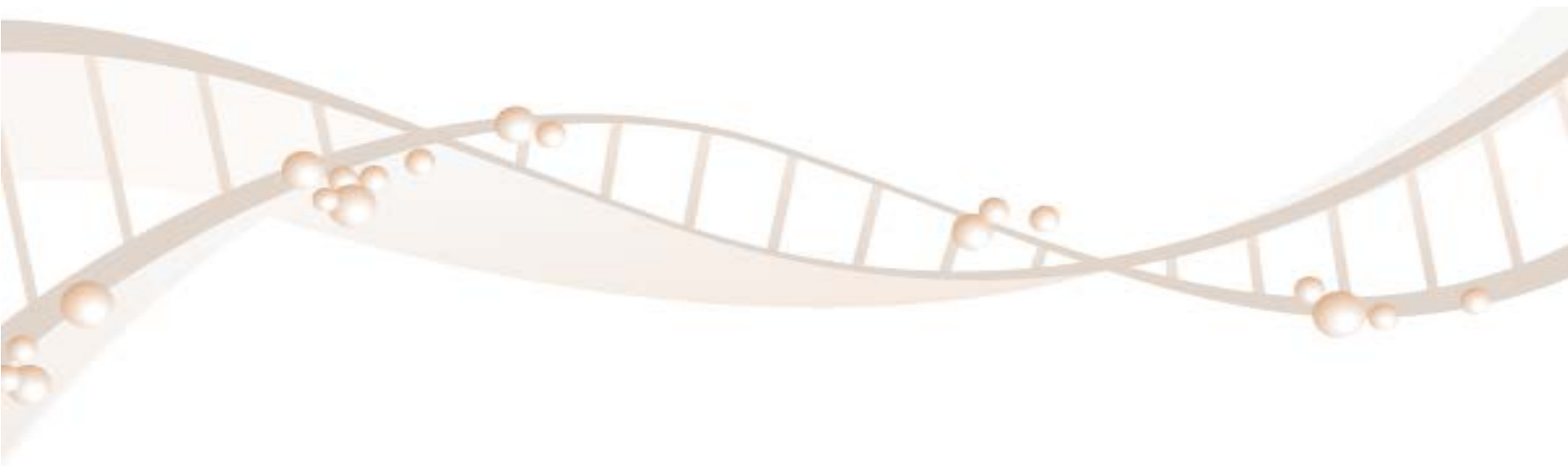


ISIS PHARMACEUTICALS

Investor Presentation

May 7, 2013



Forward Looking Language Statement

This presentation includes forward-looking statements regarding Isis Pharmaceuticals' business, Isis' financial position and outlook, and the therapeutic and commercial potential of Isis' technologies and products in development, and the contemplated offering of common stock and the anticipated use of proceeds therefrom. Any statement describing Isis' goals, expectations, financial or other projections, intentions or beliefs, including the commercial potential of KYNAMRO and the contemplated offering of common stock and the anticipated use of proceeds therefrom, is a forward-looking statement and are made pursuant to the Safe-harbor provisions of the Private Securities Litigation Reform Act of 1995. Such statements are subject to certain risks and uncertainties, particularly those inherent in the process of discovering, developing and commercializing drugs that are safe and effective for use as human therapeutics, and in the endeavor of building a business around such drugs. Isis' forward-looking statements also involve assumptions that, if they never materialize or prove correct, could cause its results to differ materially from those expressed or implied by such forward-looking statements. Although Isis' forward-looking statements reflect the good faith judgment of its management, these statements are based only on facts and factors currently known by Isis. As a result, you are cautioned not to rely on these forward-looking statements. These and other risks concerning Isis' programs are described in additional detail in Isis' annual report on Form 10-K for the year ended December 31, 2012 and its most recent quarterly report on Form 10-Q, which are on file with the SEC. Copies of these and other documents are available from the Company.

Isis claims the protection of the safe harbor for forward-looking statements contained in the Private Securities Litigation Reform Act of 1995 for all forward-looking statements.

Isis Pharmaceuticals, Inc. has filed a registration statement and a prospectus supplement with the SEC for the offering to which this communication relates. Before you invest, you should read the prospectus in that registration statement, the prospectus supplement and other documents Isis Pharmaceuticals, Inc. has filed with the SEC for more complete information about Isis Pharmaceuticals, Inc. and this offering. You may get these documents for free by visiting EDGAR on the SEC Website at www.sec.gov. Alternatively, any underwriter or other dealer participating in the offering will arrange to send you the prospectus and prospectus supplement if you request them by calling Goldman, Sachs & Co. at 1-866-471-2526 or J.P. Morgan at 1-866-803-9204.

In this press release, unless the context requires otherwise, "Isis," "Company," "we," "our," and "us" refers to Isis Pharmaceuticals and its subsidiaries.

Isis Pharmaceuticals® is a registered trademark of Isis Pharmaceuticals, Inc. KYNAMRO™ is a trademark of Genzyme Corporation.

Common Stock Offering

3

Securities Description	Common Stock
Ticker / Listing	ISIS / NASDAQ
Type of Shares	100% Primary
Offering Size	9 million shares
Over Allotment Option	15%
Anticipated Pricing Date	Wednesday, May 8, 2013, after Close
Lock Up	90 days (Company, Board of Directors, and Officers)
Use of Proceeds	Research and development and general corporate purposes
Underwriters	Goldman, Sachs & Co., J.P. Morgan
Lead Manager	Stifel
Co-managers	BMO Capital Markets; Cowen and Company, LLC; Needham & Company

Isis Today

4

- **KYNAMRO™: First Systemically Delivered Antisense Drug Approved in the US**
 - FOCUS FH phase III study to support label expansion in the US and possible EU approval

- **Constantly Maturing Pipeline**
 - Nine drugs with Phase 2 or Phase 3 data expected in 2013/early 2014
 - Two to three Phase 3 programs initiating in 2013/early 2014
 - Five drugs with launch potential by 2017/2018

- **Expanding Portfolio of Drugs and Therapeutic Areas**
 - Four new drugs in development over the last 12 months for a total of 28
 - Growing severe, rare and orphan disease program

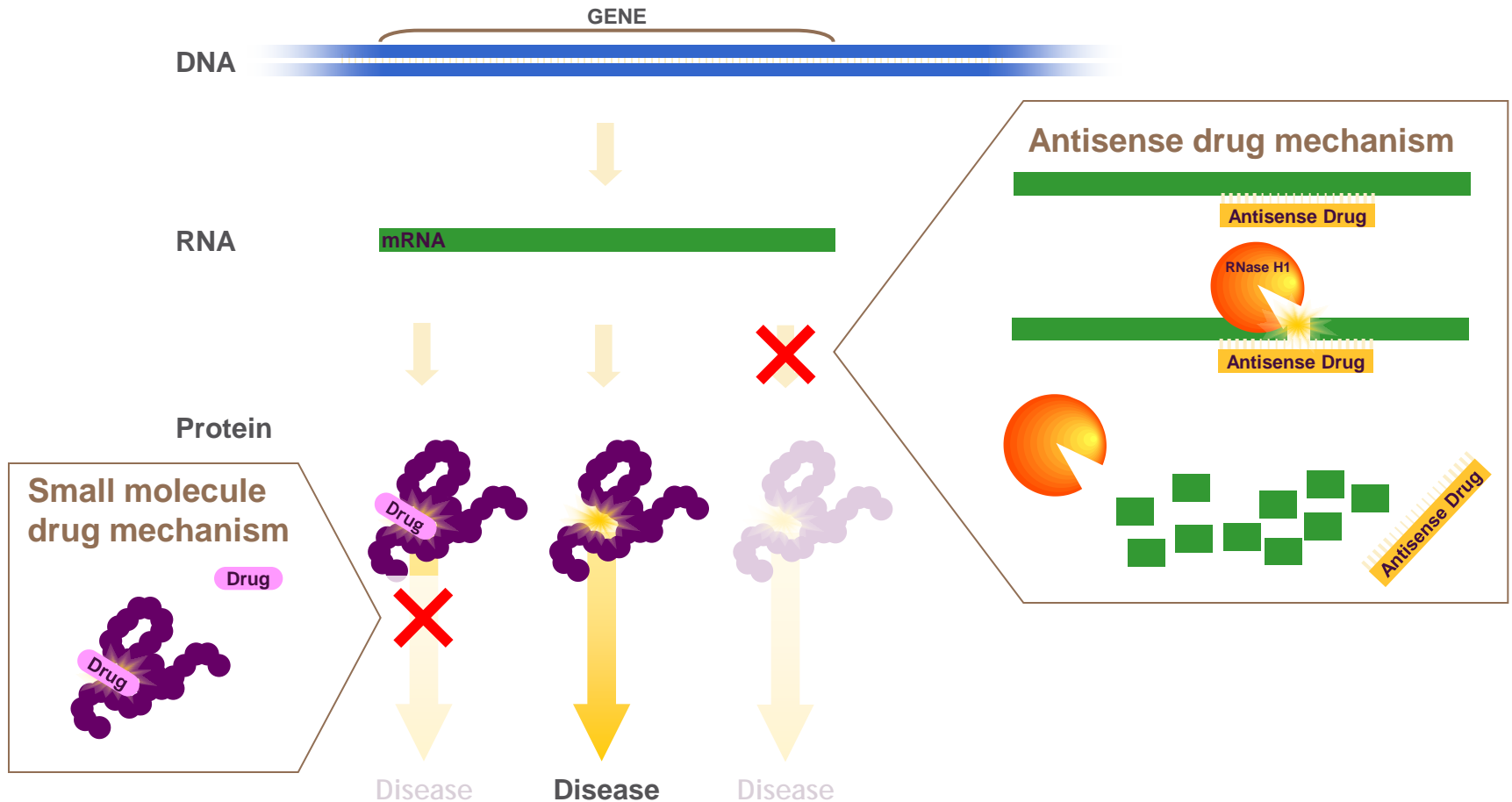
- **Leader in Antisense Technology**
 - Continued improvements in the potency and side effect profile
 - Over 1,500 patents protecting the portfolio

- **Partnerships Validating the Platform, Complementing Isis' Expertise and Ensuring Financial Strength**
 - Five new collaborations in the last year and a half, three in the last six months alone, bringing in \$126mm in upfront payments and over \$2.5bn in total potential value (AstraZeneca, Biogen Idec and Roche)

Leaders in Antisense















A traditional small molecule drug inhibits a disease-causing protein based on the shape of the protein

An antisense drug inhibits the production of a disease-causing protein based on the protein's mRNA and gene sequence



Isis' Clinical-Stage Pipeline





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Therapeutic Area	Indication	Partners	Drugs	Phase I	Phase II	Phase III	Reg & Comm
Cardiovascular	Severe HeFH		KYNAMRO™				
	CAD		ISIS-APOCIII _{RX}				
	CAD		ISIS-CRP _{RX}				
	Clotting Disorders		ISIS-FXI _{RX}				
	CAD		ISIS-APOA _{RX}				
Severe & Rare	Homozygous FH		KYNAMRO™				
	Pouchitis		Alicaforsen				*Named Patient Supply
	TTR Amyloidosis		ISIS-TTR _{RX}				
	Spinal Muscular Atrophy		ISIS-SMN _{RX}				
	Severe HTG		ISIS-APOCIII _{RX}				
	Acromegaly		ATL1103				
	Cushing's Syndrome		ISIS-GCCR _{RX}				
Metabolic	Diabetes		ISIS-PTP1B _{RX}				
	Diabetes		ISIS-GCCR _{RX}				
	Diabetes		ISIS-GCGR _{RX}				
	Obesity		ISIS-FGFR4 _{RX}				
Cancer	Cancer	 	Custirsen				
	Cancer		ISIS-EIF4E _{RX}				
	Cancer		OGX-427				
	Cancer		ISIS-STAT3 _{RX}				
Inflammation & Other	Inflammation		ISIS-CRP _{RX}				
	MS		ATL1102				
	Local Fibrosis		EX0 001				
	Ocular Disease	 iCo Therapeutics Inc.	iCo-007				
	Severe Bacterial Infection		Plazomicin				

Isis' Pre-clinical Stage Pipeline






April 2013

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Therapeutic Area	Indication	Partners	Drugs	Preclinical	Phase I	Phase II	Phase III	Reg & Comm
Cardiovascular	Clotting Disorders		ISIS-FVII _{Rx}					
Severe & Rare	AAT Liver Disease		ISIS-AAT _{Rx}					
	Hereditary Angioedema		ISIS-PKK _{Rx}					
Metabolic	NASH		ISIS-DGAT2 _{Rx}					
Cancer	Cancer		ISIS-AZ1 _{Rx}					
Inflammation	Anemia of Inflammation		XEN701					
& Other	Antiviral		ISIS-GSK3 _{Rx}					

Potential Drug Launches Through 2018

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Drug	Indication/Market	Economics
<p>ISIS-TTR_{Rx}</p> 	<p>Familial Amyloid Polyneuropathy (FAP) ~10,000 patients</p>	<p>License fee, sales milestone payments and double-digit royalties</p>
<p>ISIS-SMN_{Rx}</p> 	<p>Spinal muscular atrophy (SMA) ~35,000 patients worldwide</p>	<p>License fee, milestone payments and double-digit royalties</p>
<p>ISIS-APOCIII_{Rx}</p> 	<p>Severe triglyceridemia (>880 mg/dL) at increased risk of recurrent pancreatitis ~200,000 patients in US & EU</p>	<p>Isis Owned</p>
<p>Custirsen (OGX-011)</p> 	<p>Castration-resistant prostate cancer (1st line) ~315,000 patients in US/EU</p>	<p>Milestone payments and single-digit royalties</p>
<p>EXC 001</p> 	<p>Anti-scarring treatment estimated to be multibillion dollar market</p>	<p>Milestone and other payments and single-digit royalties</p>

KYNAMRO's Approval Has Validated Our Platform

First Systemic Antisense Drug on the Market



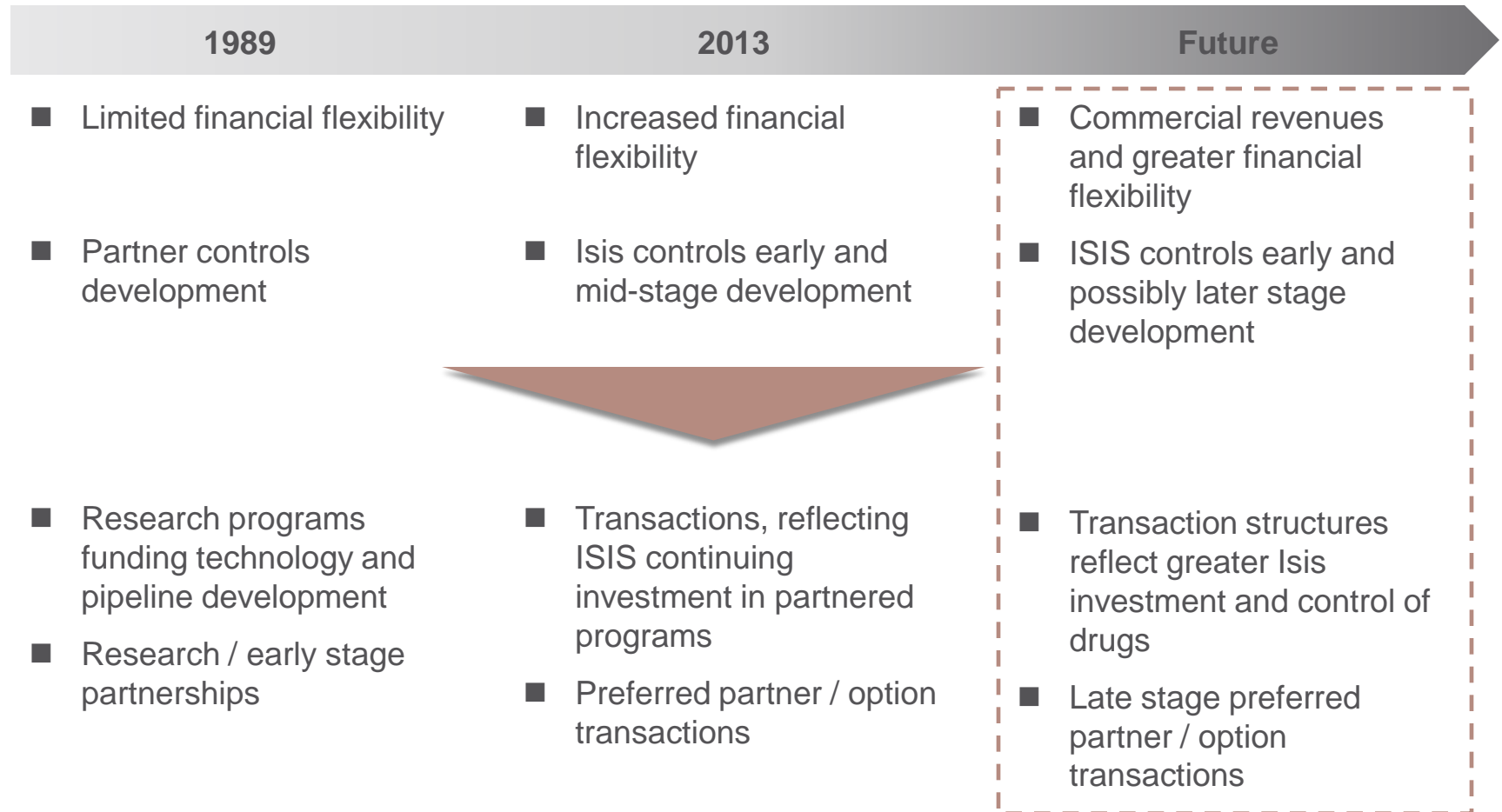
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- **KYNAMRO approved by FDA for homozygous FH on January 29, 2013**
 - \$25M milestone earned
- **Commercial activities underway via Genzyme / Sanofi**
 - Physicians qualified, scripts written and reimbursement obtained
 - Focus on improving disease awareness and treatment of homozygous FH patients
- **Investing in the future – FOCUS FH Phase III study in severe FH patients ongoing (under SPA)**
 - Projected completion by year end 2014



Evolving Business Strategy

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Criteria for Partnering

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Partner Early

- Complex, difficult and/or expensive development path
- Expertise from partner could provide increased likelihood of success
- Significant technical risk (i.e., new route of administration, new mechanism)

License After POC



- Complex development path
- High development cost
- Outcome studies required or likely
- No recognized approvable endpoints
- Large patient population
- Large marketing and sales effort
- Broad group of treating physicians

Keep Longer

- Clear development path
- Low to moderate development costs
- Potential for rapid route to market in small indication, followed by expansion into larger indications
- Diseases in which antisense technology has a clear advantage
- Therapeutic areas and clinical studies in which Isis has prior knowledge and expertise to leverage



Examples:

ISIS-SMN_{Rx} 
 ISIS-STAT3_{Rx} 

ISIS-CRP_{Rx}
 ISIS-FXI_{Rx}

ISIS-APOCIII_{Rx}
 ISIS-PKK_{Rx}
 ISIS-APOA_{Rx}

ISIS-APOCIII_{Rx} for Severe Hypertriglyceridemia

An Isis-Owned Rare Disease Opportunity

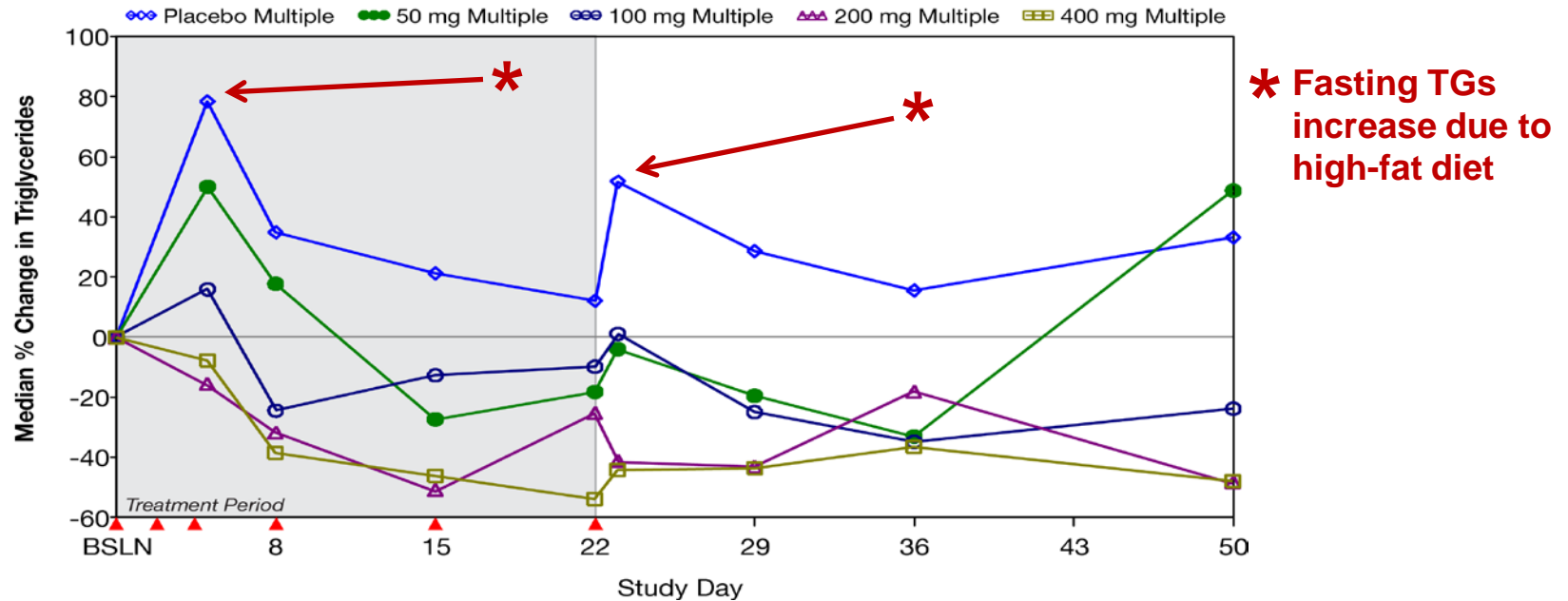
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- **More than 200K patients in US and EU with severe hypertriglyceridemia (HTG) (triglycerides of >880 mg/dL)**
 - Significant risk of developing recurring pancreatitis, often requiring multiple hospitalizations and may require surgery
 - High risk for cardiovascular disease
 - Frequently occurs in patients with type 2 diabetes
- **Standard therapies, including niacin, fibrates and fish oil are inadequate**
- **Potential for broader utility in cardiovascular disease and metabolic syndrome, including diabetes**

ISIS-APOCIII_{RX} Phase I in Healthy Volunteers

Dose-Dependent Reduction in Fasting and Diet-Induced Triglycerides

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Safety Summary

- No SAEs, no clinically significant increases in liver enzymes or other lab chemistries
- No flu-like symptoms and very low incidence of mild injection site reactions

ISIS-APOCIII_{Rx} Ongoing Studies

Ongoing Studies

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Phase 2 in Patients with Severe or Uncontrolled Hypertriglyceridemia

- Multicenter randomized double-blind placebo controlled study
- Study designed to demonstrate that ISIS-APOCIII_{Rx} can decrease triglycerides and ApoC-III in patients with severely elevated triglycerides (TG), alone and in combination with fibrates
 - Patients not on TG-lowering therapy with fasting TG levels ≥ 500 & ≤ 2000 mg/dL
 - 72 patients / 100, 200 & 300 mg 13 weeks / 3:1 (active:placebo)
 - Patients on stable dose fibrates with fasting TG levels ≥ 225 & ≤ 2000 mg/dL
 - 24 patients / 200 & 300 mg 13 weeks / 2:1 (active:placebo)
- Also will evaluate effects of ISIS-APOCIII_{Rx} on fasting & post-prandial TG levels
- Data planned for mid 2013

Phase 2 Study in T2DM Patients with Elevated Triglycerides

- Randomized double-blind placebo controlled study
- Study designed to demonstrate that ISIS-APOCIII_{Rx} can decrease triglycerides and ApoC-III in type II diabetes patients with moderately elevated triglycerides
 - ~24 patients diagnosed with T2DM ≥ 6 months on stable dose metformin ≥ 1 mg at least 4 weeks (HbA1C $\geq 7.0\%$ - $< 9.0\%$ and fasting TG levels ≥ 200 & ≤ 500 mg/dL)
 - Randomized 2:1 to receive 300 mg ISIS-APOCIII_{Rx} or placebo
- Also will evaluate effects of ISIS-APOCIII_{Rx} on whole body insulin sensitivity, diabetic profile & lipid profile, including fasting & post-prandial TG levels
- Data planned for late 2013

ISIS-APOCIII_{Rx}

Rapid Path to Market

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- **Phase 3 study in patients with severe hypertriglyceridemia (TG > 880 mg/dL)**
 - ▣ Planned to begin in early 2014
 - ▣ US & EU regulatory meetings planned for 2013
- **Data planned for late 2015**
- **Potential regulatory filing in 2016**
- **Potential commercial launch in 2016/2017**
- **Isis owned program**

ISIS-SMN_{Rx} for Spinal Muscular Atrophy (SMA)

Severe Genetic Neuromuscular Disease Affecting Children

16

- **SMA is a rare disease that affects approximately 30-35K children in United States, Europe and Japan**
 - ▣ Number one genetic cause of death in infants
 - ▣ Characterized by progressive muscle atrophy and loss of motor function
- **Caused by genetic defects in the SMN1 gene that result in the lack of functional SMN protein**
- **No currently approved therapies for SMA**

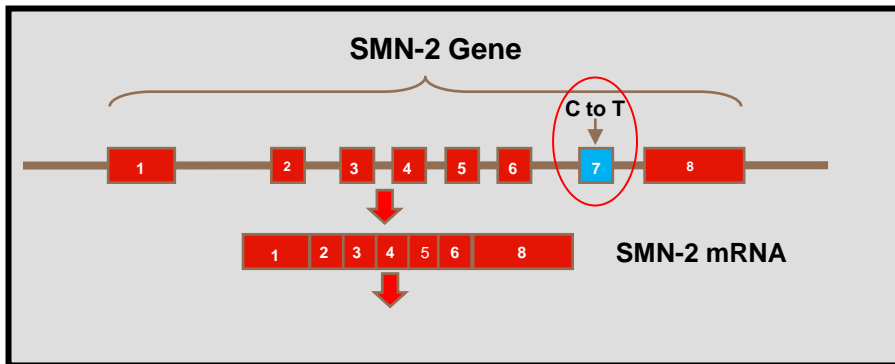


ISIS-SMN_{Rx}

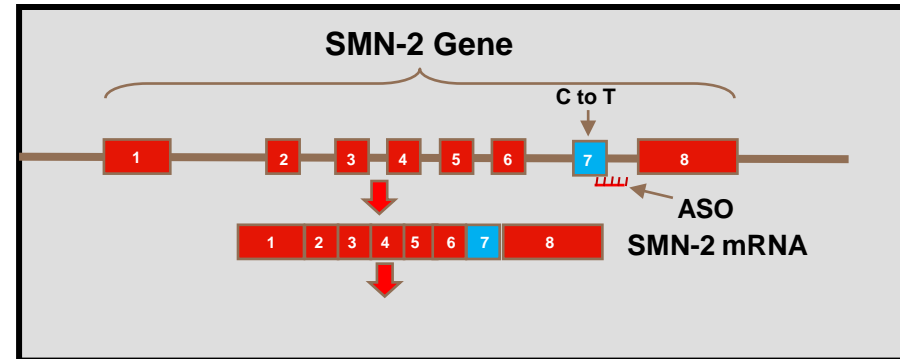
Modulating RNA Processing to Positively Impact Disease

17

- A related gene, SMN2, normally produces only a small amount of functional SMN protein because of inappropriate RNA processing
- ISIS-SMN_{Rx} increases the production of functional SMN protein by promoting appropriate RNA processing



SMN2 gene does not normally produce enough SMN protein to compensate for loss of SMN1 gene in patients with SMA. Splicing mechanism removes exon 7 resulting in a shortened defective SMN protein



ISIS-SMN_{Rx} keeps exon 7 in the RNA and leads to the production of functional SMN protein

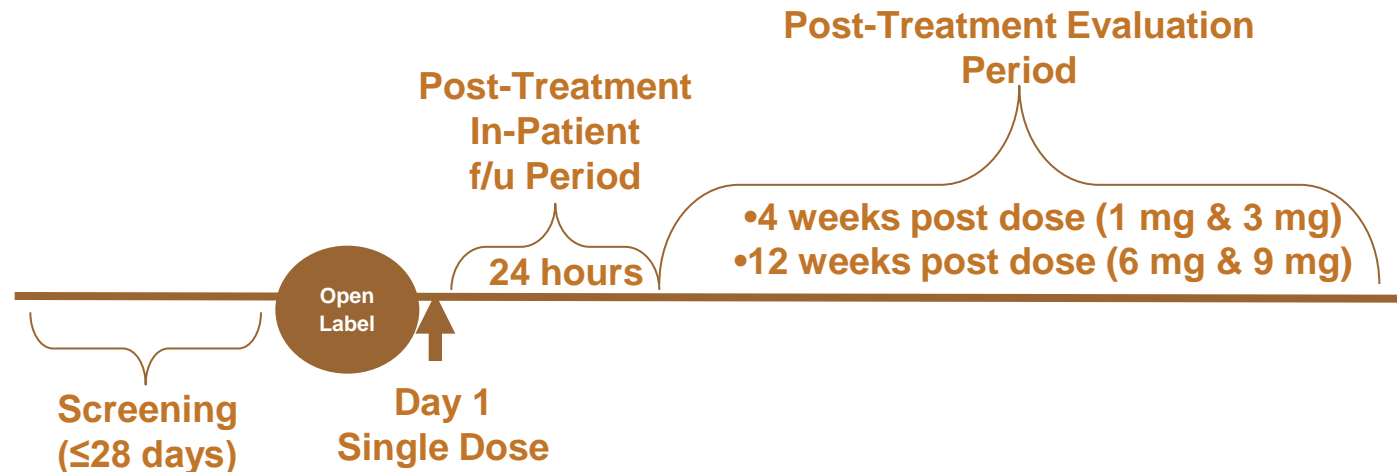
ISIS-SMN_{Rx}

Phase I Single-Dose Study in SMA Patients (Completed)

18

- **Open-label, single-dose study to evaluate the safety and tolerability of ISIS-SMN_{Rx} in SMA patients 2-14 years of age**
 - ▣ Intrathecal dosing was well tolerated
 - ▣ Feasibility of infrequent dosing demonstrated
 - ▣ Improvements in Hammersmith scores, a measure of muscle function, were observed in a number of children

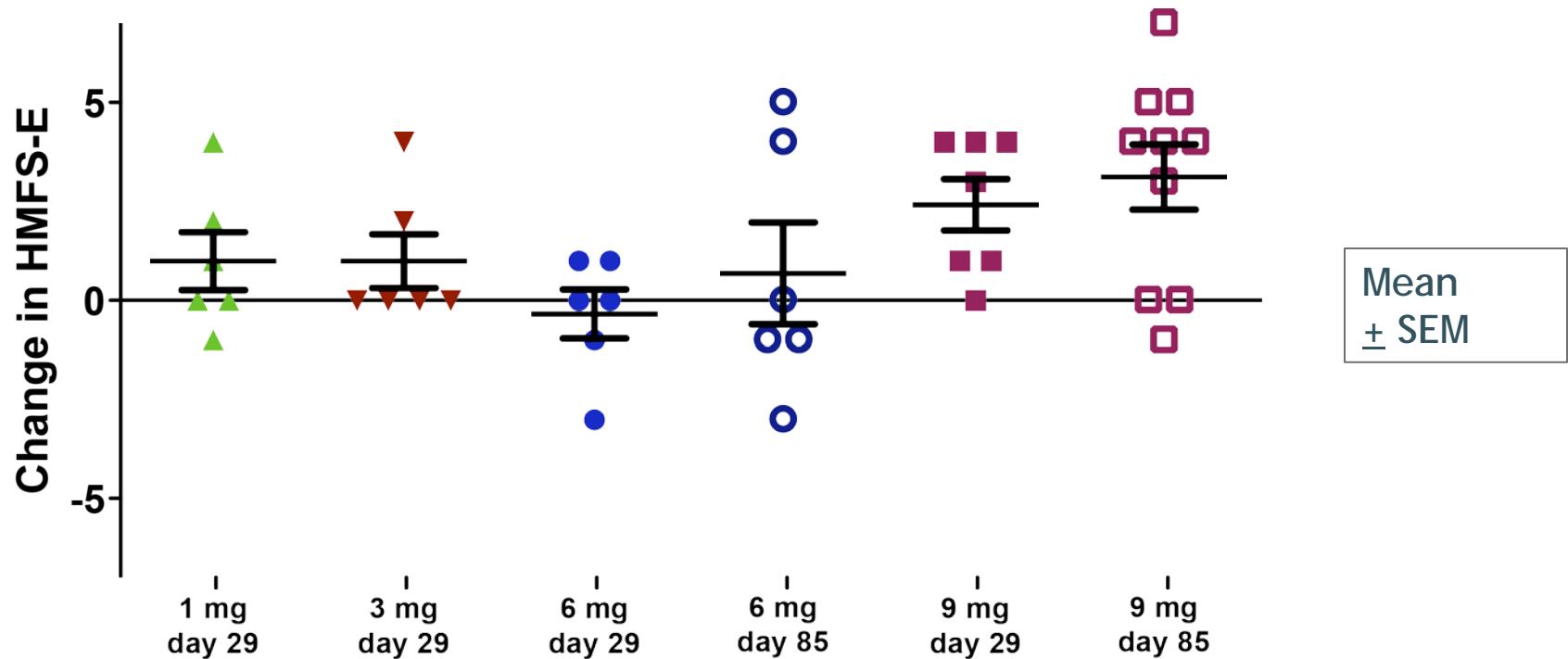
Cohorts	n
1 mg	6
3 mg	6
6 mg	6
9 mg	10



Exploratory Outcome Measure

Hammersmith Motor Function Scale – Expanded

19



■ In the 9 mg dose group at Day 85

- Mean change from baseline = 3.1 points ($p=0.02$); % change = 17.6%
- 6/10 subjects with change ≥ 4 points (3/6 were ≥ 5 years old)

ISIS-SMN_{Rx} – Ongoing Studies

20

Phase 1b/2a Multiple-Dose Study in SMA Patients (Ongoing)

- Open-label, intrathecal, dose escalation study in SMA patients 2-15 years of age
- Objectives
 - Determine dose and dose interval for Phase 3 study
 - Evaluate the safety and tolerability of multiple doses of ISIS-SMN_{Rx}
 - Evaluate biomarkers and clinical outcomes related to SMA
 - Determine appropriate Phase 3 endpoints
- Data planned for late 2013/early 2014

Phase 2 Infantile-onset Study (Initiated)

- Open-label, intrathecal, multiple dose study in eight infants with SMA
- Objectives
 - Determine dose and dose interval for Phase 3 study
 - Evaluate the safety and tolerability of multiple doses of ISIS-SMN_{Rx} in patients between the ages of three weeks and seven months
 - Evaluate biomarkers and clinical outcomes related to SMA
- Data planned for late 2013/early 2014

ISIS-SMN_{Rx}

Rapid Path to Market

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- **Granted Orphan Drug Status in US and EU and Fast Track Designation in US**
- **Two pivotal programs planned to start in 2013/early 2014**
 - ▣ Infant onset Phase 2/3 studies (~50 patients)
 - ▣ Childhood onset Phase 3 study (~120 patients)
- **Potential filing in 2016-2017 followed by launch in 2017-2018**
- **Attractive economics**
 - ▣ \$74M in upfront payment and pre-licensing milestones
 - ▣ \$225M in license fee and post-licensing milestone payments
 - ▣ Double-digit royalties

Splicing Disorders

A Novel Area for Antisense Drugs

22

- **ISIS-SMN_{RX} is the first drug designed to treat splicing disorders**
- **Other splicing diseases that could be addressed with antisense drugs**
 - ▣ Duchenne muscular dystrophy
 - ▣ Thalassemia
 - ▣ Progeria
 - ▣ Neurofibromatosis type 1
 - ▣ Cystic fibrosis
 - ▣ Pheochromocytoma
 - ▣ Long QT syndrome
 - ▣ Familial dementia

Examples of Other Programs Isis Intends to Keep Longer

Well Defined Clinical Path and Efficient Path to Market

23

■ **ISIS-PKK_{Rx} for Hereditary Angioedema**

- HAE is a rare genetic disease characterized by rapid, painful and potentially fatal attacks of severe edema, which are caused by an inflammatory response
- Approximately 15-20K patients in US and EU
- Current prophylactic treatments (androgens) are either inadequate or very difficult to use
- Unmet need: Up to 80% of patients are not using IV prophylaxis and could use a s.c. prophylactic if effective and available
- Development path relatively straightforward and potentially rapid

■ **ISIS-APOA_{Rx} for patients with severely elevated Lp(a)**

- Lp(a) is an independent risk factor for coronary heart disease and stroke
- Approximately 160K patients in US and EU have severely elevated Lp(a) ≥ 250 mg/dL
- Most commonly prescribed lipid-reducing drugs have little or no effect on Lp(a) concentration
- Potentially rapid development path in severe patient population

Advancing Antisense Technology

New Mechanisms, New Routes of Delivery, Better Performance

24

■ New Mechanisms

- ▣ RNA Processing/Splicing
- ▣ Single-stranded RNAi

■ New Routes of Delivery

- ▣ Intrathecal
- ▣ Intradermal

■ Better Performance

- ▣ Improved screening produces more potent and better tolerated 2nd Generation antisense drugs
- ▣ Generation 2.5 antisense drugs even more potent

Recent Partnering Transactions Validating the Platform and Illustrating Future Potential for Isis

25

Date	Partner	Focus / Products	Upfront	Total Value
Jan-2012		Spinal Muscular Atrophy	\$29mm	~\$300mm
Jun-2012		Myotonic Dystrophy	\$12mm	~\$270mm
Dec-2012		Neurological Disorders	\$30mm	>\$660mm
Dec-2012		ISIS-STAT3 _{RX} and Oncology	\$25mm	~\$1bn
Apr-2013		Huntington's Disease	\$30mm	~\$360mm

Advancing the Pipeline

Multiple Data Read Outs and Value Creation Opportunities in 2013 / Early 2014

26

Drug	Studies (Indication)	Partner	Data Timing
ISIS-CRP _{Rx}	Phase 1 – Endotoxin study Phase 2 - RA (Inflammation) Phase 2 - Atrial Fibrillation (Cardiovascular Disease)	Isis Owned	Q1 2013 ✓ Mid 2013 2014
ISIS-APOCIII _{Rx}	Phase 2 - Severe Hypertriglyceridemia (HTG) Phase 2 - Type 2 Diabetes with Moderate HTG	Isis Owned	Mid 2013 Late 2013
ISIS-EIF4E _{Rx}	Phase 2 - Lung Cancer Phase 2 - Prostate Cancer	Isis Owned	2013
OGX-427	Phase 2 - Prostate Cancer	Oncogenex	2013
ISIS-STAT3 _{Rx}	Phase 2 - Lymphoma	AstraZeneca	Late 2013/Early 2014
ISIS-SMN _{Rx}	Phase 1 – Spinal Muscular Atrophy Phase 2 - Spinal Muscular Atrophy (infantile onset) Phase 2 - Spinal Muscular Atrophy (childhood onset)	Biogen	Q1 2013 ✓ Late 2013/Early 2014 Late 2013/Early 2014
iCo-007	Phase 2 - Diabetic Macular Edema	iCo Therapeutics	Early 2014
OGX-011	Phase 3 - Prostate Cancer	Oncogenex	1H 2014
ISIS-FXI _{Rx}	Phase 2 - Total Knee Replacement (Thrombosis)	Isis Owned	2014

Multiple Investment Opportunities across the Pipeline

Drugs with Phase II and III Studies Planned for 2013 / Early 2014

27

Drug	Studies (Indication)	Partner	Initiation Timing
ISIS-TTR _{Rx}	Phase 2/3 (Familial Amyloid Polyneuropathy [FAP])	GSK	Q1 2013 ✓
ISIS-SMN _{Rx}	Phase 2 (Spinal Muscular Atrophy – infantile onset) Phase 3 (SMA – infantile onset) Phase 3 (SMA – childhood onset)	Biogen	Q1 2013 ✓ Early 2014 Early 2014
OGX-427	Phase 2 (Lung Cancer) Phase 2 (Pancreatic Cancer)	Oncogenex	Mid 2013 2013
ISIS-STAT3 _{Rx}	Phase 2 (Cancer)	AstraZeneca	Q2 2013 ✓
ISIS-PTP1B _{Rx}	Phase 2 (Type 2 Diabetes)	Isis Owned	2013
ISIS-GCGR _{Rx}	Phase 2 (Type 2 Diabetes)	Isis Owned	2013
ISIS-GCCR _{Rx}	Phase 2 (Type 2 Diabetes) Phase 2 (Cushing's Syndrome)	Isis Owned	2013 2014
ISIS-APOCIII _{Rx}	Phase 3 (Severe Hypertriglyceridemia)	Isis Owned	Early 2014

Key Management

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Stanley T Crooke, M.D., Ph.D.
Chairman of the Board & CEO
(24 years at Isis)



B Lynne Parshall, Esq.
Director & COO
(22 years at Isis)



C Frank Bennett, Ph.D.
Sr. VP Research
(24 years at Isis)



Richard S Geary, Ph.D.
Sr. VP Development
(17 years at Isis)



Brett P. Monia, Ph.D.
Sr. VP Antisense
Drug Discovery
(24 years at Isis)



Beth Hougen
Sr. VP of Finance & CFO
(13 years at Isis)



Patrick O'Neil, Esq.
Sr. VP of Legal
& General Counsel
(12 years at Isis)

Isis Financial Position

March 31, 2013 (in millions)

29

	3 Months Ended, March 31	
	2013	2012
Revenue	\$ 43	\$ 23
Operating Expenses – Pro forma ⁽¹⁾	39	39
Loss from Operations – Pro forma ⁽¹⁾	4	(16)
Net Income (Loss) – Pro forma ⁽¹⁾	1	(22)

	At March 31, 2013	
Cash & Short-term Investments ⁽²⁾	\$ 372	
2¾% Convertible Notes ⁽³⁾	201	
Deferred Revenue (Long-term Portion)	59	
Long-term Financing Liability for Leased Facility ⁽⁴⁾	71	
Stockholders' Equity	201	

⁽¹⁾ Amounts exclude non-cash compensation expense related to equity awards.

⁽²⁾ This amount does not include the \$30M we received in April 2013 from our recently announced Roche transaction.

⁽³⁾ Amount represents the principal balance of the Notes. On the balance sheet, the carrying value of the Notes is \$146 million due to the adoption of FSP 14-1.

⁽⁴⁾ Accounting rules required Isis to record the cost of its leased facility as a fixed asset with a corresponding liability.

Isis – Opportunity to Invest in Leading Antisense Pipeline and Platform

30

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genzyme



OncoGenex™
TEMI Bringing hope to life.™

Pfizer

EXCALIARD
PHARMACEUTICALS, INC.



iGo IGo Therapeutics Inc.



ISIS®
PHARMACEUTICALS

fall 2011
HOPKINS
medicine



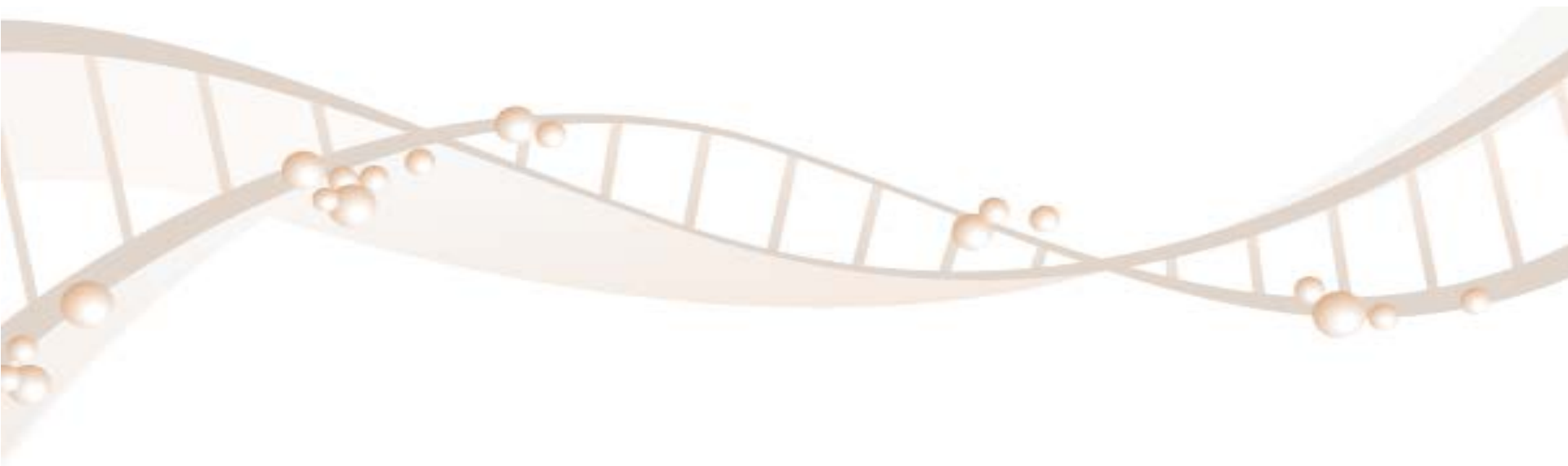
gsk



biogen idec®

PUMPED UP
Nothing keeps Payton Mueller down—not even muscle-ravaging SMA. Find out why he and his Hopkins doctors have so much hope for the future. Page 18

Appendix



Advantages of our Antisense Technology Platform

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**Direct Route
from Genes to Drugs**

*Uniquely specific &
broadly applicable*

**Efficient Discovery &
Early Development**

*Dramatically reduced cost &
increased success in R&D*

**Investment Amortized
Across the Entire Pipeline**

*Chemistry, manufacturing,
formulation, analytical methods*

**Generate an
Evergreen Pipeline**

*Robust, diversified pipeline adding
3-5 new drugs per year*